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Nota di contenuto	About IFMBE; Foreword; Conference Details; Contents; Electrode Considerations, Excitation Methods and Measurement Techniquesfor Electrical Impedance Tomography; I. INTRODUCTION; II. LITERATURE REVIEW; III. MATERIALS AND METHODS; IV. RESULTS AND DISCUSSION; V. CONCLUSION; REFERENCES; Developing an Optimized Single-Trial P300-Based BrainComputer Interface System; I. INTRODUCTION; II. P300-BCI SYSTEM; III. CONCLUSIONS; REFERENCES; Neural-Response-Based Text-Dependent Speaker IdentificationUnder Noisy Conditions; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS AND DISCUSSIONS; IV. CONCLUSION REFERENCESMental Stress Quantification Using EEG Signals; I. INTRODUCTION; II. METHODOLOGY; III. RESULT AND DISCUSSION; IV. CONCLUSION; REFERENCES; Mean Glandular Dose and Figure of Merit of 2 Dimensional and 3 Dimensionallmaging in Digital Breast Tomosynthesis; I. INTRODUCTION; II. MATERIAL AND METHOD; III.

RESULTS; IV. DISCUSSION; REFERENCES; The Effect of Hearing Augmentation on Cognitive Assessment Scores:A Pilot Crossover Randomized Controlled Trial; I. INTRODUCTION; II. METHODS; III. RESULTS; IV. DISCUSSION; V. LIMITATIONS AND RECOMMENDATIONS; VI. CONCLUSION; REFERENCES

Development and Characterization of Polypyrrole-Based Nanocomposite Adsorbent and Its Applications in Removal of Radioactive Materials I. INTRODUCTION; II. MATERIALS AND METHODS; III. RESULTS AND DISCUSSION; IV. CONCLUSION; REFERENCES; Grey Matter Volume Differences of Textual Memorization:A Voxel Based Morphometry Study; I. INTRODUCTION; II. MATERIAL AND METHOD; III. RESULTS; IV. DISCUSSION; V. CONCLUSIONS; REFERENCES; Beat-to-Beat Blood Pressure Variations While Standing are Associated with Postural Changes in Blood Pressure; I. INTRODUCTION; II. METHODS; III. RESULTS; IV. DISCUSSION

V. CONCLUSIONS REFERENCES; Curvature Analysis of Multifractal Spectra for Time Series of RR Intervals for Patients with Congestive Heart Failure; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS; IV. CONCLUSIONS; REFERENCES; Elemental Analysis of Nigerian and Nigerien Foods Using Neutron Activation and Estimation of Daily Intake; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS AND DISCUSSIONS; IV. CONCLUSIONS; REFERENCES; Optimization of CNT Based MEMS Piezoresistive Pressure Sensor for Intracranial Pressure Monitoring; I. INTRODUCTION; II. PRESSURE SENSOR DIAPHRAGM DESIGN; III. TAGUCHI METHOD

IV. SIMULATION OF OPTIMIZED SQUARED DIAPHRAGM REFERENCES; Removal of Ocular Artifacts in EEG Signals Using Adapted Wavelet and Adaptive Filtering; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS AND DISCUSSION; IV. CONCLUSIONS; REFERENCES; Real Time Eye Blink Artifacts Removal in Electroencephalogram Using Savitzky-Golay Referenced Adaptive Filtering; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS; IV. CONCLUSIONS; REFERENCES; Classification of Image Processing Software Tools for Cardiovascular Image Analysis; I. INTRODUCTION; II. RESEARCH METHODOLOGY; III. CLASSIFICATION FRAMEWORK; IV. DISCUSSION

V. CONCLUSION AND FUTURE WORK

## Sommario/riassunto

This volume presents the proceedings of ICIBEL 2015, organized by the Centre for Innovation in Medical Engineering (CIME) under Innovative Technology Research Cluster, University of Malaya. It was held in Kuala Lumpur, Malaysia, from 6-8 December 2015. The ICIBEL 2015 conference promotes the latest researches and developments related to the integration of the Engineering technology in medical fields and life sciences. This includes the latest innovations, research trends and concerns, challenges and adopted solution in the field of medical engineering and life sciences. .